Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

- 1. (Currently Amended) An apparatus for testing fluid flow and flushing a transmission cooler comprising:
 - a user interface panel for inputting information;
 - a fluid supply line and a fluid return line;
- a pressure switch, a manual shut off valve, a filtering system, and a flow switch coupled to the return line;
- a reservoir tank for containing automatic transmission fluid and is in fluid communication with the fluid return line;
- a float type liquid level for detecting the amount of automatic transmission fluid in the reservoir tank;
 - a heating element located within the reservoir tank;
 - a fluid fill port connected to the reservoir tank;
 - an air operated fluid pump coupled to the reservoir tank; and
 - an air injection system coupled to the fluid pump and the supply line.
- 2. (Previously Presented) The apparatus of claim 1, further comprising:
 - a flow meter coupled with the fluid pump.
- 3. (Original) The apparatus of claim 1, wherein the filtering system comprises:
 - a primary filter; and
 - a secondary filter.

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- 4. (Original) The apparatus of claim 3, wherein the primary filter comprises: a strainer basket with a mesh insert.
- 5. (Original) The apparatus of claim 4, wherein the strainer basket is clear.
- 6. (Original) The apparatus of claim 3 wherein the secondary filter filters smaller particles than the primary filter.
- 7. (Previously Presented) The apparatus of claim 3, wherein the secondary filter comprises: an automotive oil filter type.
- 8. (Previously Presented) The apparatus of claim 1, wherein the air injection system comprises:

an air regulator for receiving air from an air supply unit;
a solenoid valve coupled to the air regulator and the air operated fluid pump; and
an air inject valve coupled to the air regulator, a flow meter, and the supply line.

- (Original) The apparatus of claim 1, further comprising:
 a reservoir lid connected to the reservoir tank.
- 10. (Cancelled)

- 11. (Previously Presented) The apparatus of claim 1, further comprising:a temperature sensor for detecting the temperature of the automatic transmission fluid.
- 12. (Original) The apparatus of claim 1, wherein the user interface panel further comprises: a keypad;

an emergency stop button;

a fluid fill port; and

an on/off switch.

- 13. (Previously Presented) The apparatus of claim 1, wherein the fluid fill port is part of the user interface panel.
- 14. (Original) The apparatus of claim 12, wherein the keypad further comprises:a plurality of keypad buttons having respective functions to program the apparatus; anda user display screen.
- 15. (Previously Presented) The apparatus of claim 14, wherein the functions of the keypad buttons comprise:
 - a heat feature to heat automatic transmission fluid within the fluid reservoir;
- a flow feature to test the flow rate of the automatic transmission fluid through the transmission cooler, the supply line and the return line;
- a flush feature to activate pressurized pulse of air within a flow stream of automatic transmission fluid and flush contaminated oil and debris from the transmission cooler;

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a purge feature that uses air to purge automatic transmission fluid from the transmission cooler, the supply line and the return line;

a stop feature; and

an empty feature to empty the reservoir tank through the supply line.

16. (Previously Presented) The apparatus of claim 14, wherein the functions of the keypad further comprises:

an UP arrow to make incremental adjustments; and

a DOWN arrow to make incremental adjustments.

17. (Original) The apparatus of claim 15, wherein the stop feature comprises: stopping the apparatus in any one of the heat, flow, flush, purge or empty modes.

18. (Currently Amended) An apparatus for testing fluid flow and flushing a transmission cooler comprising:

a user interface panel for inputting information;

a fluid supply line and a fluid return line;

a pressure switch, a manual shut off valve, a filtering system, and a flow switch coupled to the return line;

a reservoir tank for containing automatic transmission fluid and is in fluid communication with the fluid return line;

a float type liquid level for detecting the amount of automatic transmission fluid in the reservoir tank;

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a heating element located within the reservoir tank;

a fluid fill port connected to the reservoir tank;

an air operated fluid pump coupled to the reservoir tank; and

an air injection system coupled to the fluid pump and the supply line. The apparatus of claim 1, wherein the flow switch automatically shuts down the apparatus if a minimum fluid

flow rate is not detected through the fluid return line.

19. (Original) The apparatus of claim 1, wherein the pressure switch automatically shuts

down the apparatus if it detects a pressure above a prescribed setting.

20. (Original) The apparatus of claim 1, wherein the apparatus automatically shuts down

when the manual shut off valve is in a closed position.

21. (Currently Amended) A method of testing fluid flow and/or flushing a transmission

cooler comprising:

providing a supply of automatic transmission fluid to cycle through the transmission

cooler;

heating the supply of automatic transmission fluid with a heating element contained in a

reservoir, wherein the heating element heats up the automatic transmission fluid to help dislodge

contaminants;

supplying the automatic transmission fluid through a fluid supply line connected to an

OUT line of the transmission cooler;

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re-circulating the automatic transmission fluid from an IN line of the transmission cooler into a connected fluid return line;

filtering the re-circulated automatic transmission fluid; and

returning the filtered automatic transmission fluid back into the supply of automatic transmission fluid.

22. (Previously Presented) The method of claim 21, further comprising: injecting pulses of air into the automatic transmission fluid as the automatic transmission fluid circulates through the transmission cooler.

- 23. (Original) The method of claim 21, further comprising:monitoring a fluid flow rate of the automatic transmission fluid.
- 24. (Previously Presented) The method of claim 21, wherein the automatic transmission fluid is continuously cycled through the transmission cooler for a prescribed time period.
- 25. (Original) The method of claim 24, wherein the cycling process is automated.
- 26. (Original) The method of claim 24, wherein the prescribed time period is adjustable.

27. (Currently Amended) A system for testing fluid flow and/or flushing a transmission cooler comprising:

means for supplying automatic transmission fluid to cycle through the transmission cooler;

means for heating located within the supply means of automatic transmission fluid, wherein the means for heating heats up the automatic transmission fluid to help dislodge contaminants;

means for progressing the automatic transmission fluid through a fluid supply line connected to an OUT line of the transmission cooler;

means for re-circulating the automatic transmission fluid from an IN line of the transmission cooler into a connected fluid return line;

means for filtering the re-circulated automatic transmission fluid; and

means for returning the filtered automatic transmission fluid back into the means for supplying automatic transmission fluid.

28. (Original) The system of claim 27, further comprising:

means for injecting pulses of air into the automatic transmission fluid as it circulates through the transmission cooler.

29. (Original) The system of claim 27, wherein the means for progressing comprises: an air pump.

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- 30. (Original) The system of claim 28 wherein the injecting means comprises: an air inject valve.
- 31. (Original) The system of claim 27, wherein the filtering means comprises:
 a primary filter; and
 a secondary filter.
- 32. (Original) The system of claim 31, wherein the primary filter comprises: a strainer basket and mesh insert.
- 33. (Original) The system of claim 32, wherein the strainer basket is clear.
- 34. (Original) The system of claim 31, wherein the secondary filter filters smaller particles then the primary filter.
- 35. (Previously Presented) The system of claim 31, wherein the secondary filter comprises: an automotive oil filter type.
- 36. (Previously Presented) The apparatus of claim 1, wherein the air being injected into the air operated fluid pump causes turbulence in the automatic transmission fluid.
- 37. (Previously Presented) The apparatus of claim 1, wherein the heating element heats up the automatic transmission fluid to help dislodge contaminants.